PATENT

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N THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 7,138,418)	Serial No. 09/972,743
)	
Inventor(s): John FLYGARE et al)	Filed: October 5, 2001
)	
Issue Date: November 21, 2006)	Attorney Docket No. 006539.00194

For: PENTAFLUOROBENZENESULFONAMIDES AND ANALOGS

REQUEST FOR CERTIFICATE OF CORRECTION

U.S. Patent and Trademark Office Customer Service Window Randolph Building, Mail Stop: Certificate of Correction Branch 401 Dulany Street Alexandria, VA 22314

Sir:

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves one page.

The mistakes identified in the appended Form occurred through no fault of the Applicants, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience the relevant portions of the Amendment filed June 27, 2006.

Issuance of the Certificate of Correction containing the corrections is respectfully requested. Since these changes are necessitated through no fault of the Applicants, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

Cartificate

BANNER & WITCOFF, LTD

APR 1 7 2007

of Correction

Joseph M. Skerpon Registration No. 29,864

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO.:

7,138,418

DATED:

November 21, 2006

INVENTOR(S):

John FLYGARE et al

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 49, Claim 7, Lines 66-67:

Please replace "pentafluorophenylsulfonamidopyridine" with --pentafluorophenylsulfonamidopyrimidine--

In Column 50, Claim 7, Line 1:

Please replace "pentafluorophenylsulfonamidopyridine" with --pentafluorophenylsulfonamidopyrimidine--

In Column 51, Claim 8, Line 1:

Please replace " $-S(O^2)$ —" with -- $-S(O_2)$ — --

In Column 51, Claim 15, Lines 28 and 29 (2 instances):

Please replace "pentafluorophenylsulfonamidopyridine" with --pentafluorophenylsulfonamidopyrimidine--

In Column 53, Claim 28, Lines 12-13:

Please replace "pentafluorophenylsulfonamidopyridine" with --pentafluorophenylsulfonamidopyrimidine--

In Column 54, Claim 28, Line 1:

Please replace "pentafluorophenylsulfonamidopyridine" with --pentafluorophenylsulfonamidopyrimidine--

Mailing Address of Sender:

Banner & Witcoff, Ltd. 11th Floor 1001 G Street, N.W. Washington, DC 20001-4597 U.S. PAT. NO 7,138,418

No. of add'l copies @ \$0.50 per page

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In Column 49, Claim 7, Lines 66-67:

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In Column 50, Claim 7, Line 1:

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In Column 51, Claim 8, Line 1:

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Applicant(s):

John Flygare, et al.

Confirmation No. 5345

Serial No.:

09/972,743

Group Art Unit No.:

1624

Filed:

October 5, 2001

Examiner:

Deepak R Rao

For: PENTAFLUOROBENZENESULFONAMIDES Customer No. 22907

AND ANALOGS

Docket No.:

T96-001-2A-1-2/US

(006539.00194)

AFTER FINAL AMENDMENT UNDER 37 CFR §1.116 and 1.121

U.S. Patent and Trademark Office Customer Service Window, Mail Stop AF Randolph Building 401 Dulany Street Alexandria, VA 22314 Sir:

In response to the Office Action dated March 31, 2006, applicants request reconsideration of the pending claims.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 12 of this paper.

A Terminal Disclaimer accompanies this response. Please charge our deposit account no. 19-0733 for the required fee. It is believed that no additional fee is required for this filing. However, if an additional fee is required, please charge our deposit account no. 19-0733 for that fee as well.

Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

Claim 1 (Previously Presented) A pharmaceutical composition comprising a pharmaceutically acceptable excipient and a compound of formula I:

or a pharmaceutically acceptable salt thereof, wherein:

Y is -S(O) or $-S(O)_2$ -; and

Z is $-NR^1R^2$; wherein R^2 is optionally substituted heteroaryl and R^1 is selected from hydrogen

substituted or unsubstituted (C1-C10)alkyl, substituted or unsubstituted (C1-C10)alkoxy, substituted or unsubstituted (C3-C6)alkenyl, substituted or unsubstituted (C2-C6)heteroalkyl, substituted or unsubstituted (C3-C6)heteroalkenyl, substituted or unsubstituted (C3-C6)alkynyl, substituted or unsubstituted (C3-C6)alkynyl, substituted or unsubstituted (C5-C7)cycloalkyl, substituted or unsubstituted (C5-C7)cycloalkenyl, substituted or unsubstituted (C5-C7)cycloalkadienyl, substituted or unsubstituted aryl, substituted or unsubstituted aryl, substituted or unsubstituted aryloxy, substituted or unsubstituted aryl-(C3-C8)cycloalkyl,

substituted or unsubstituted aryl-(C5-C7)cycloalkenyl, substituted or unsubstituted aryloxy-(C3-C8)cycloalkyl, substituted or unsubstituted aryl-(Cl-C4)alkyl, substituted or unsubstituted aryl-(C1-C4)alkoxy, substituted or unsubstituted aryl-(C3-C6)alkenyl, substituted or unsubstituted aryloxy-(C1-C4)alkyl, substituted or unsubstituted aryloxy-(C2-C4)heteroalkyl, substituted or unsubstituted heteroaryl, substituted or unsubstituted heteroaryloxy, substituted or unsubstituted heteroaryl-(C1-C4)alkyl, substituted or unsubstituted heteroaryl-(Cl-C4)alkoxy, substituted or unsubstituted heteroaryl-(C1-C4)heteroalkyl, substituted or unsubstituted heteroaryl-(C3-C6)alkenyl, substituted or unsubstituted heteroaryloxy-(CI-C4)alkyl, and substituted or unsubstituted heteroaryloxy-(C2-C4)heteroalkyl, provided that:

in the case that Y is $-S(O_2)$ -, and R^1 is hydrogen or methyl, then R^2 is substituted heteroaryl group:

in the case that Y is $-S(O_2)$ -, and R^2 is a ring system chosen from 5-quinolyl, or 4-pyridyl, then either R^1 is not hydrogen or R^2 is substituted by at least one substituent that is not hydrogen;

in the case that Y is $(O_2)^2$ and R² is 2-methylbenzothiazol-5-yl, 6-hydroxy-4-methyl-pyrimidin-2-yl, 3-carbomethoxypyrazin-2-yl, 5-carbomethoxypyrazin-2-yl, 4-carboethoxy-l-phenylpyrazol-5-yl, 3-methylpyrazol-5-yl, 4-chloro-2-methylthiopyrimidin-6-yl, 2-trifluoromethyl-1-,3-,4-thiadiazol-5-yl, 4-methylthiazol-2-yl, 6,7-dihydroindan-5-yl, 7-chloro-5-methyl-1,8-naphthyridin-2-yl, 5,7-dimethyl-1,8-naphthyridin 2-yl, or 3-cyanopyrazol-4-yl, then R¹ is a group other than hydrogen.

Claim 2 (Previously presented) The composition of claim 1 wherein

Y is $-S(O)_2$ -.

Claim 3 (Previously Presented) The composition of claim 2, wherein R^1 is hydrogen or lower alkyl, and R^2 is optionally substituted pyridyl.

Claim 4-10 (Canceled)

Claim 11 (Previously Presented) The composition of claim 1, wherein the compound is 5-Pentafluorophenylsulfonamidoindazole, or 5-Pentafluorophenylsulfonamidoindole.

Claim 12-17 (Canceled)

Claim 18 (Previously presented) The composition of claim 1, wherein the compound is selected from the group consisting of 4-Methyl-6-methoxy-2-pentafluorophenylsulfonamidopyrimidine; 4,6-Dimethoxy-2-pentafluorophenylsulfonamidopyrimidine; 2-Pentafluorophenylsulfonamidothiophene; 3-Pentafluorophenylsulfonamidothiophene; 3-Pentafluorophenylsulfonamidopyridine; 4-Pentafluorophenylsulfonamidopyridine; 2-Chloro-5-Pentafluorophenylsulfonamidopyridine; 6-Pentafluorophenylsulfonamidoquinoline; 5-Pentafluorophenylsulfonamidobenzo[a]thiophene; 5-Pentafluorophenylsulfonamidobenzo[a]furan; 5-Pentafluorophenylsulfonamidoindazole; 2-Methoxy-5-Pentafluorophenylsulfonamidopyridine; and 2-Anilino-3-pentafluorophenylsulfonamidopyridine.

Claims 19-40 (Canceled)

Claim 41 (original) The composition of claim 2, wherein R¹ is an optionally substituted (C2-Cl0)alkyl or optionally substituted (C2-C6)heteroalkyl.

pyrimidin-2-yl, 3-carbomethoxypyrazin-2-yl, 5-carbomethoxypyrazin-2-yl, 4-carboethoxy-l-phenylpyrazol-5-yl, 3-methylpyrazol-5-yl, 4-chloro-2-methylthiopyrimidin-6-yl, 2-trifluoromethyl-1-,3-,4-thiadiazol-5-yl, 4-methylthiazol-2-yl, 6,7-dihydroindan-5-yl, 7-chloro-5-methyl-1,8-naphthyridin-2-yl, 5,7-dimethyl-1,8-naphthyridin 2-yl, or 3-cyanopyrazol-4-yl, then R¹ is a group other than hydrogen; wherein said compound has pharmacological activity; and with the proviso that heteroaryl is other than 4-pyrimidyl.

Claim 62 (Previously Presented) The compound of claim 61, wherein R¹ is hydrogen or lower alkyl, and Y is -S(O₂).

Claims 63-94 (Canceled)

Claim 95 (Previously Presented) A pharmaceutical composition of claim 1, wherein R^1 is hydrogen or lower alkyl, and Y is $-S(O_2)$.

Claim 96 (Previously Presented) A method of claim 43, wherein R¹ is hydrogen or lower alkyl, and Y is -S(O₂).

Claim 97 (canceled)

Claim 98 (Previously presented) A compound of claim 61, wherein the compound is selected from the group consisting of 5-Pentafluorophenylsulfonamidoindazole; 5-Pentafluorophenylsulfonamidoindole, 4-Methyl-6-methoxy-2-pentafluorophenylsulfonamidopyrimidine; 4,6-Dimethoxy-2-pentafluorophenylsulfonamidopyrimidine; 2-Pentafluorophenylsulfonamidothiophene; 3-Pentafluorophenylsulfonamidopyridine; 4-Pentafluorophenylsulfonamidopyridine; 2-Chloro-5-Pentafluorophenylsulfonamidopyridine; 6-Pentafluorophenylsulfonamidoquinoline; 5-Pentafluorophenylsulfonamidobenzo[a]thiophene; 5-Pentafluorophenylsulfonamidobenzo[a]furan; 2-Methoxy-5-

Pentafluorophenylsulfonamidopyridine; and 2-Anilino-3pentafluorophenylsulfonamidopyridine.

Claim 99 (Previously presented) A method of claim 43, wherein the compound is selected from the group consisting of 5-Pentafluorophenylsulfonamidoindazole; 5-

Pentafluorophenylsulfonamidoindole, 4-Methyl-6-methoxy-2-

pentafluorophenylsulfonamidopyrimidine; 4,6-Dimethoxy-2-

pentafluorophenylsulfonamidopyrimidine; 2-Pentafluorophenylsulfonamidothiophene; 3-

Pentafluorophenylsulfonamidothiophene; 3-Pentafluorophenylsulfonamidopyridine; 4-

Pentafluorophenylsulfonamidopyridine; 2-Chloro-5-Pentafluorophenylsulfonamidopyridine; 6-

Pentafluorophenylsulfonamidoquinoline; 5-Pentafluorophenylsulfonamidobenzo[a]thiophene; 5-

Pentafluorophenylsulfonamidobenzo[a]furan; 2-Methoxy-5-

Pentafluorophenylsulfonamidopyridine; and 2-Anilino-3-

pentafluorophenylsulfonamidopyridine.

Claim 100 (Previously presented) A compound of claim 61, wherein R¹ is an optionally substituted (C2-C10)alkyl or optionally substituted (C2-C6)heteroalkyl.

Claim 101 (Previously presented) A method of claim 44, wherein R¹ is an optionally substituted (C2-C10)alkyl or optionally substituted (C2-C6)heteroalkyl.

Claim 102 (Previously presented) A pharmaceutical composition of claim 1, wherein said compound is capable of increasing LDL receptor gene expression in a cell.

Claim 103 (Previously presented) A method of claim 43 wherein said compound is capable of increasing LDL receptor gene expression in a cell.

Claim 104 (Previously presented) A method of claim 43, wherein R² is a monocyclic heteroaryl group.